

INTERNATIONAL SEARCH REPORT

PCT/GB2004/003273

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N5/00 C12N5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/02592 A (CELLTECH LTD ; FIELD RAYMOND PAUL (GB)) 3 February 1994 (1994-02-03) cited in the application See in particular, examples 2 and 5.	1-50
X	KOVAR J AND FRANEK F: "Iron compounds at high concentrations enable hybridoma growth in a protein-free medium" BIOTECHNOLOGY LETTERS, vol. 9, no. 4, 1987, pages 259-264, XP009037179 cited in the application Table 2, page 264, in particular ----- -/--	1-50

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 September 2004

Date of mailing of the international search report

03/11/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rojo Romeo, E

INTERNATIONAL SEARCH REPORT

PCT/GB2004/003273

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 316 938 A (RAPSON NICHOLAS T ET AL) 31 May 1994 (1994-05-31) cited in the application column 5, l. 29 and 52-60; claim 1. -----	1-50
Y	WO 92/05246 A (SMITHKLINE BEECHAM CORP) 2 April 1992 (1992-04-02) cited in the application see claim 1, p. 3 l. 20-25, p. 4 l. 25-29. -----	1-50
Y	WO 93/00423 A (NOVONORDISK AS) 7 January 1993 (1993-01-07) cited in the application example 5 -----	1-50
Y	NEUMANNOVA V ET AL: "GROWTH OF HUMAN TUMOR CELL LINES IN TRANSFERRIN-FREE, LOW-IRON MEDIUM" IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY. ANIMAL, TISSUE CULTURE ASSOCIATION, COLUMBIA, MD, US, vol. 31, no. 8, September 1995 (1995-09), pages 625-632, XP001118629 ISSN: 1071-2690 cited in the application page 630, l.h. column, last paragraph. -----	1-50
Y	KEEN M J: "The culture of rat myeloma and rat hybridoma cells in a protein-free medium" CYTOTECHNOLOGY, vol. 17, no. 3, 1995, pages 193-202, XP009037173 ISSN: 0920-9069 cited in the application Table 1 and discussion in particular -----	1-50
T	DEMPSEY JONATHAN ET AL: "Improved fermentation processes for NS0 cell lines expressing human antibodies and glutamine synthetase." BIOTECHNOLOGY PROGRESS, vol. 19, no. 1, January 2003 (2003-01), pages 175-178, XP002298041 ISSN: 8756-7938 the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/003273

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9402592	A	03-02-1994	AT 207115 T	15-11-2001
			AU 677960 B2	15-05-1997
			AU 4716493 A	14-02-1994
			CA 2116221 A1	03-02-1994
			DE 69330945 D1	22-11-2001
			DE 69330945 T2	20-06-2002
			DK 610474 T3	03-12-2001
			EP 0610474 A1	17-08-1994
			ES 2165368 T3	16-03-2002
			WO 9402592 A1	03-02-1994
			JP 6511389 T	22-12-1994
			JP 3221681 B2	22-10-2001
			PT 610474 T	29-04-2002
			US 6593140 B1	15-07-2003
US 5316938	A	31-05-1994	US 5633162 A	27-05-1997
			AT 248217 T	15-09-2003
			AU 645615 B2	20-01-1994
			AU 8591591 A	07-05-1992
			CA 2053586 A1	18-04-1992
			DE 69133303 D1	02-10-2003
			DE 69133303 T2	24-06-2004
			DK 481791 T3	08-12-2003
			EP 1221476 A2	10-07-2002
			EP 0481791 A2	22-04-1992
			ES 2204885 T3	01-05-2004
			IE 913559 A1	22-04-1992
			JP 2625302 B2	02-07-1997
			JP 6070757 A	15-03-1994
			NZ 240248 A	25-11-1994
			ZA 9108249 A	16-04-1993
WO 9205246	A	02-04-1992	AU 662491 B2	07-09-1995
			AU 8734891 A	15-04-1992
			CA 2091443 A1	26-03-1992
			EP 0550638 A1	14-07-1993
			IE 913345 A1	25-02-1992
			JP 6500918 T	27-01-1994
			MX 9101254 A1	04-05-1992
			NZ 239900 A	27-09-1993
			PT 99048 A , B	31-08-1992
			WO 9205246 A1	02-04-1992
			ZA 9107561 A	30-09-1992
WO 9300423	A	07-01-1993	AU 2196892 A	25-01-1993
			CA 2111984 A1	07-01-1993
			WO 9300423 A1	07-01-1993
			EP 0593539 A1	27-04-1994
			JP 6508523 T	29-09-1994